

Single-use brushing assembly for the teeth, with handle and bristles moulded in one and the same block made from semi-rigid plastic, for example of polyethylene type, with dehydrated toothpaste placed on the bristles

**Bibliographic
data**

**Publication
number:** FR2559361 (A1)

**Publication
date:** 1985-08-16

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Classification:

- international: A46B1/00; A46B11/00; A46B15/00; A46B5/00; A46B9/04; A46B1/00;
A46B11/00; A46B15/00; A46B5/00; A46B9/00; (IPC1-7): A46B11/00;
A46B9/04

- European: A46B1/00; A46B11/00A; A46B15/00; A46B5/00; A46B9/04E

**Application
number:** FR19840002021 19840209

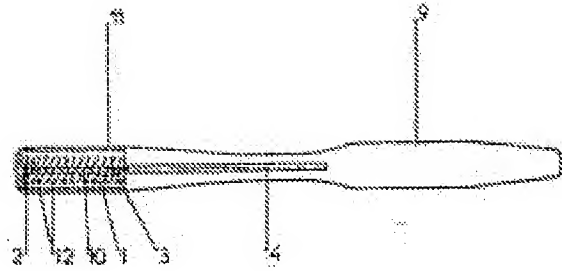
**Priority
number(s):** FR19840002021 19840209

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Abstract of **FR 2559361 (A1)**

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The invention relates to a single-use brushing assembly for the teeth, with handle and bristles moulded in one and the same block made from semi-rigid plastic, for example of polyethylene type, with dehydrated toothpaste placed on the bristles. It consists of a handle 9 and of a head 11 carrying ten rows 1 of approximately thirty-eight bristles 12, the rows being separated in their centre by a conical channel 3 permitting the positioning of the rib 10 of the block of dehydrated toothpaste 2 via the said channel. The handle of the brush is strengthened by a rib 4 in front of the clump of bristles. The single-use tooth-brushing assembly according to the invention is intended particularly for cleaning the teeth at any time and in any place.



The object of the invention is a whole of brushing for the teeth with single use with handle and molded bristles of a same block into plastic semi rigid type, for example, polyethylene with paste toothpaste dehydrated, laid on the bristles.

This toothbrush was conceived to encourage the individuals to brush the teeth several times per day and same apart from their residence and thus to improve their dental hygiene.

This brush, to allow a moderate prise was carried out of only one block, in injection moulding. Indeed, the handle and the bristles are dependent one of the other since-molded ones into only one times.

So that the bristles ensure an effective brushing and the teeth do not damage, they are made out of a semi-rigid plastic for example type polyethylene to 65 Shore of hardness.

One associates this brush a laid on the bristles and dehydrated paste toothpaste. The maintenance of this one is ensured in combination by a rib located at the middle low part of the block of paste toothpaste at slightly inclined edges corresponding one at the profile of the bristles, and according to a section slightly broader than that of the corridor.

Packing is closed vacuum complete. It consists of a thermoformed PVC in which comes to encrust the toothbrush and is formed of an enamelled peelable paper allowing the sterilization.

The unit is proposed with any individual wishing to wash the teeth constantly and in any place.

The annexed drawings illustrate the embodiment of the brush in conformity with the invention.

1 - The head of the toothbrush, - view according to a transverse cut, is packed of ten rows (1) of approximately thirty eight bristles each one and separate in their medium by a corridor (3) allowing the placement of the rib (10) of the block of paste dehydrated toothpaste (2) and by the said corridor.

2 - A rib is envisaged at the center of the sleeve of the brush in the direction length to improve its stiffness (4).

3 - The name of the toothbrush (5) is inscribed on the end inner of the handle.

4 - Two splines (6) envisaged on the back of the brush allow a lightening of the brush as well as the attenuation of the phenomenon of removal of the material.

5 - Packing is composed of a first part (7) in thermoformed PVC following the form of the brush and intended to contain it and of a second part out of enamelled peelable paper (8) allowing a sterile vacuum closing, welded onto the opening of the EM lighterage coming to cover the back with the brush and to close packing

6 - Representation of a view of high of the unit of the brush.

CLAIMS

1) Together of brushing of the teeth intended a characterized single use in what it is made up in coribinaisons of a toothbrush of which the handle and the bristles are manufactured by injection in same the materials into plastic semi-rigid and whose rows of bristles are separated by a corridor and by a block from paste provided toothpaste dehydrated of a bottom groove coming to fit in the said corridor.

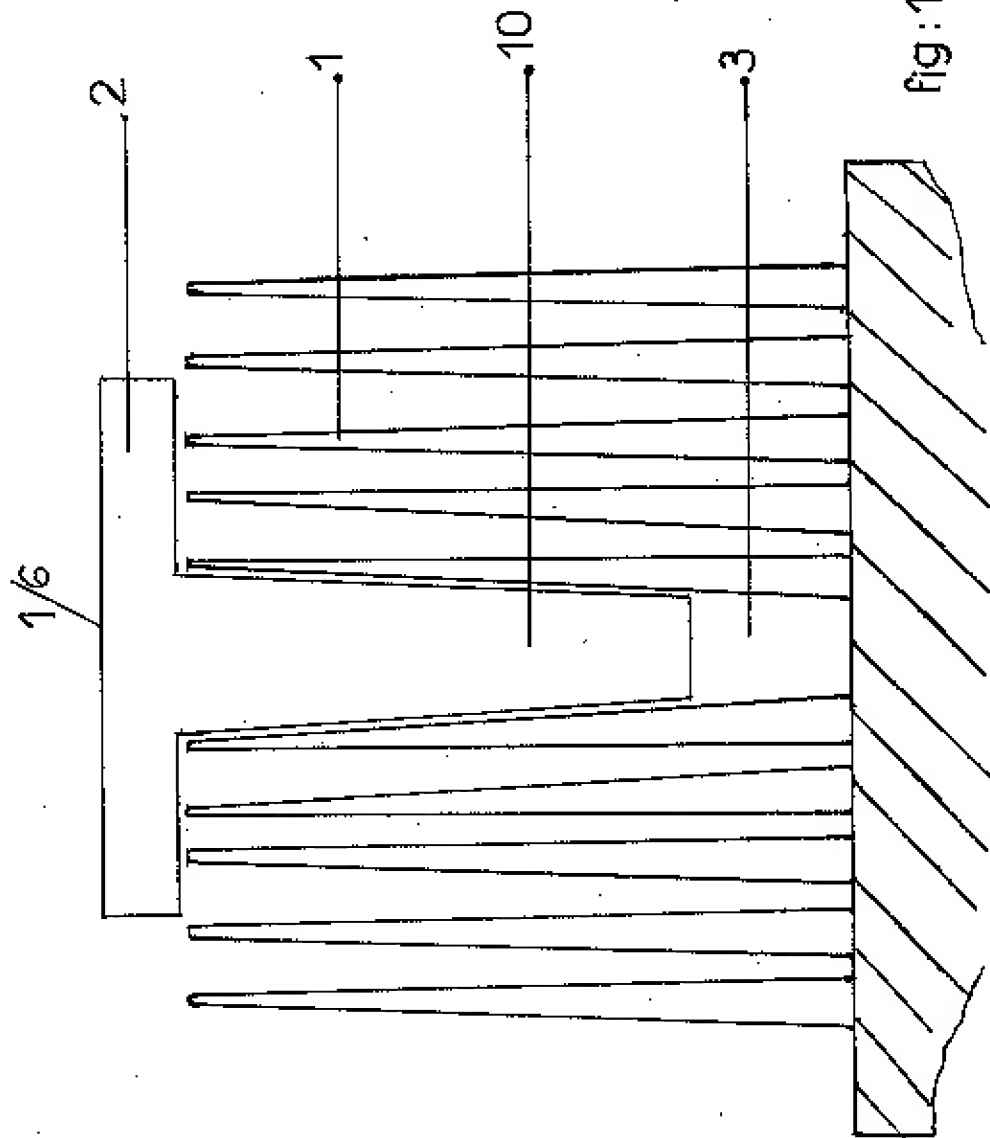
2) Together of brushing of the teeth according to claim characterized No 1 by the fact that the handle and the bristles are manufactured by polyethylene injection with approximately 65 Shore of hardness.

3) Together of brushing of the teeth according to claim characterized No 1 by the fact that it is one obviously with the back of the brush allowing a lightening of this one as well as the attenuation of the phenomenon of removal of the material.

4) Together of brushing of the teeth according to claim characterized No 1 by the fact that the brush consists of ten rows of thirty eight bristles each one.

5) Together of brushing of the teeth according to claim characterized No 1 by the fact that a groove on the block of paste toothpaste comes to be embedded in the conical corridor envisaged in the middle of the ten rows of bristles.

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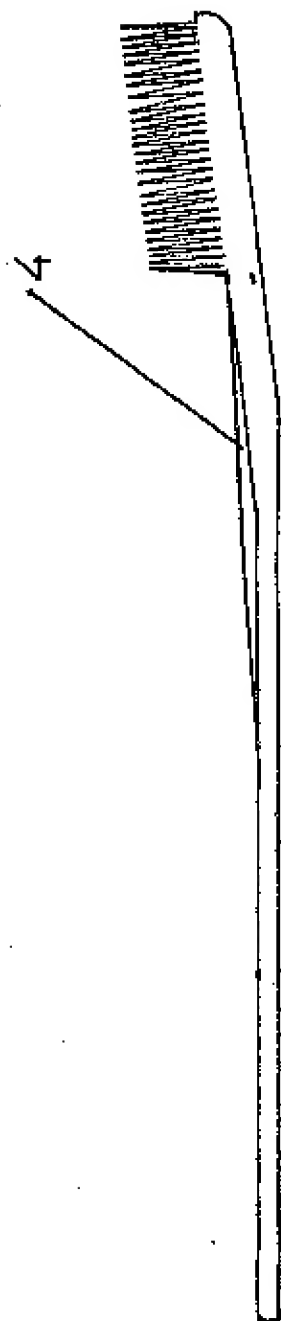
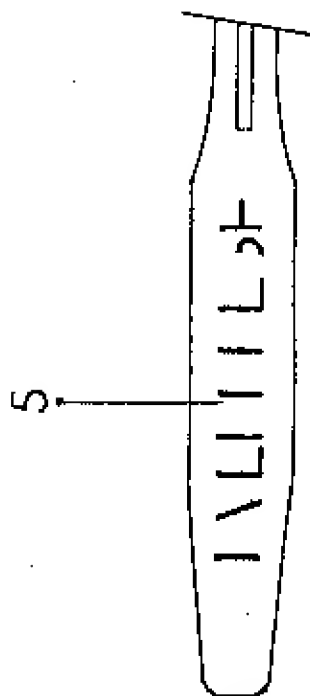


fig:2

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$$\frac{6}{3}$$


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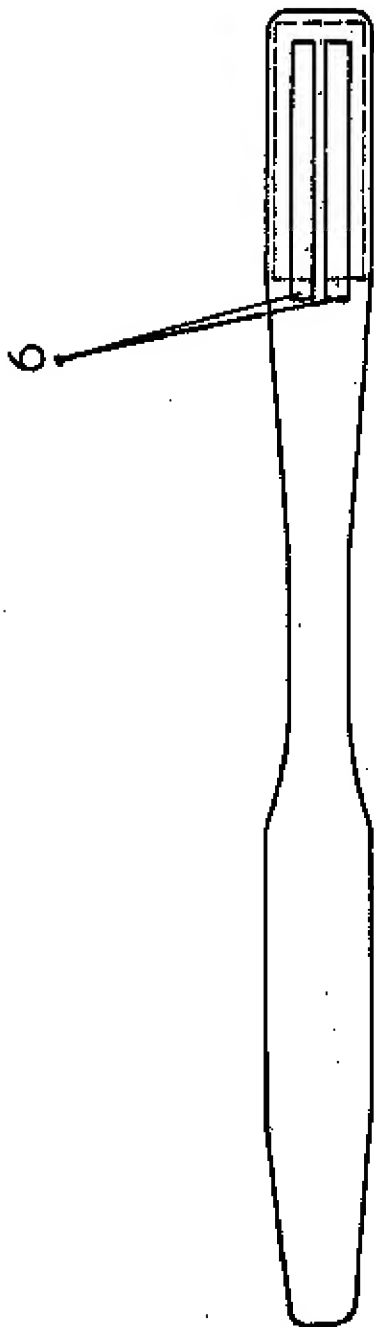
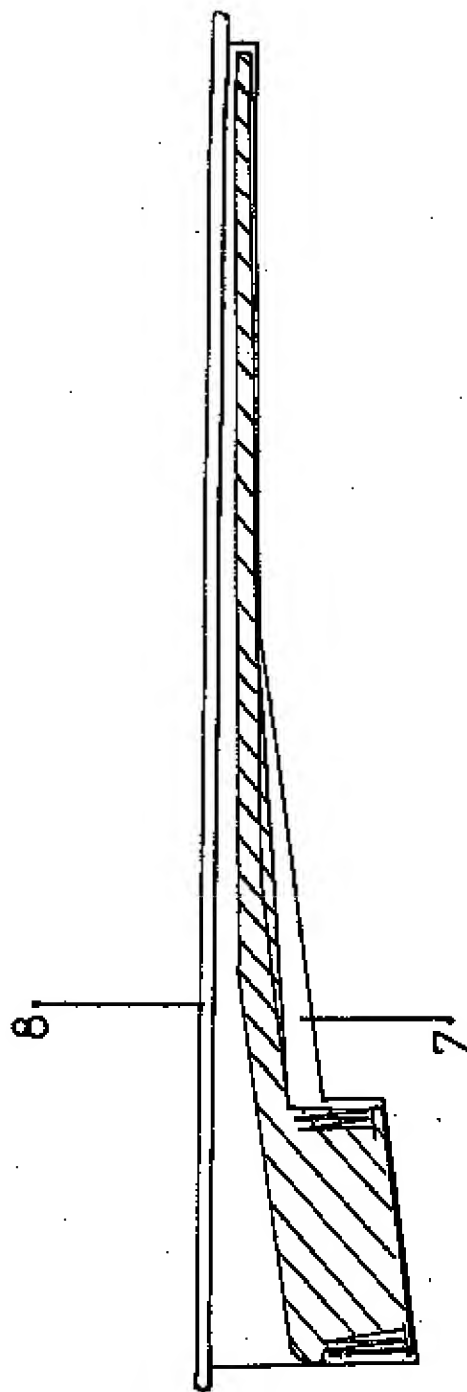


Fig:4

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fig: 5

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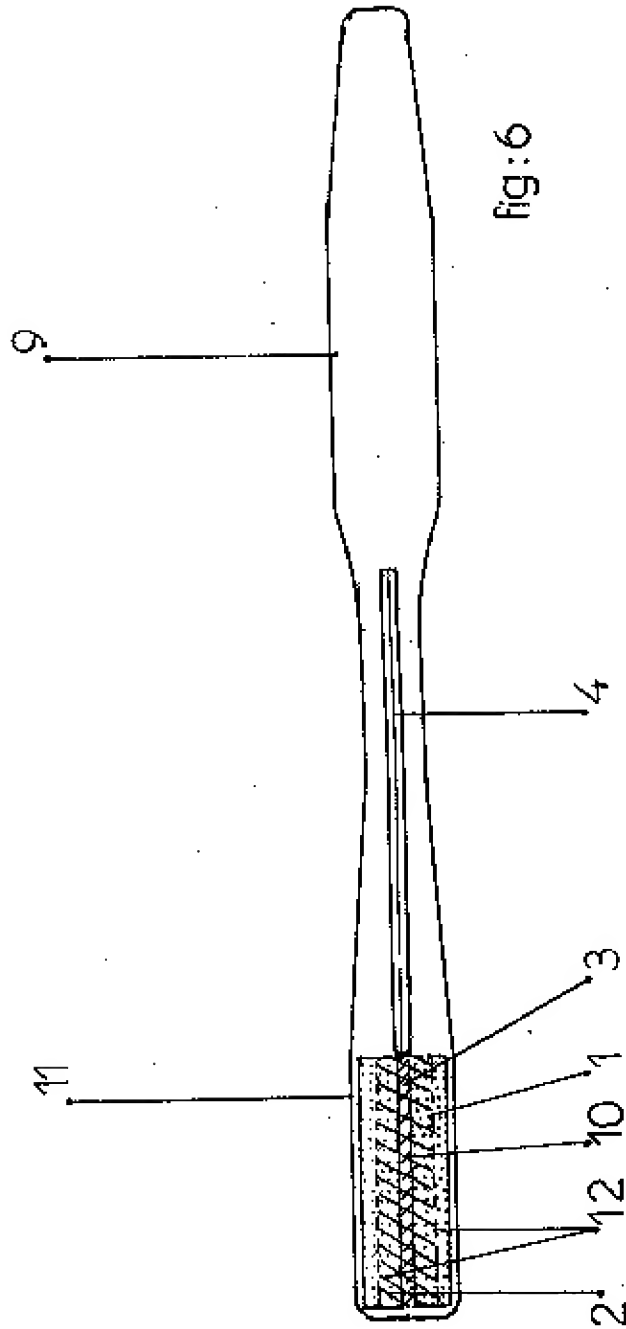


fig:6